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1 Efficiently publishing relational data as XML documents

Jayavel Shanmugasundaram, Eugene Shekita, Rimon Barr, Michael Carey, Bruce Lindsay, Hamid Pirahesh, Berthold Reinwald

Full text available: 📄 pdf(216.67 KB)   Additional Information: full citation, abstract, references, cited by, index terms

XML is rapidly emerging as a standard for exchanging business data on the World Wide Web. For the foreseeable future, however, most business data will continue to be stored in relational database systems. Consequently, if XML is to fulfill its potential, ...

Keywords: Publishing, Relational databases, XML

2 Induction of integrated view for XML data with heterogeneous DTDs

Euna Jeong, Chun-Nan Hsu
October   CIKM '01: Proceedings of the tenth international conference on Information
2001   and knowledge management
Publisher: ACM

Full text available: pdf(2.90 MB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper proposes a novel approach to integrating heterogeneous XML DTDs. With this approach, an information agent can be easily extended to integrate heterogeneous XML-based contents and perform federated search. Based on a tree grammar inference ...

Keywords: XML DTD, distributed databases, federated search, intelligent agent, mark-up schemes, semistructured data

3 Active rules for XML: A new paradigm for E-services

Angela Bonifati, Stefano Ceri, Stefano Paraboschi
August   The VLDB Journal — The International Journal on Very Large Data
2001   Bases,   Volume 10 Issue 1
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(81.58 KB)   Additional Information: full citation, abstract, references, cited by, index terms

XML is rapidly becoming one of the most widely adopted technologies for information exchange and representation. As the use of XML becomes more widespread, we foresee the development of active XML rules, i.e., rules explicitly designed for the management ...

Keywords: Active databases, Document management, Query languages for XML, XML, XSLT

4 XML-enabled workflow management for e-services across heterogeneous platforms

German Shegalov, Michael Gillmann, Gerhard Weikum
August   The VLDB Journal — The International Journal on Very Large Data
2001   Bases,   Volume 10 Issue 1
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(662.54 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Advanced e-services require efficient, flexible, and easy-to-use workflow technology that integrates well with mainstream Internet technologies such as XML and Web servers. This paper discusses an XML-enabled architecture for distributed workflow management ...

Keywords: Business processes, Information system interoperability, Internet e-services, Workflow management, XML/XSL

5 An XML-based approach to multimedia software engineering for distance learning

T. Arndt, S. K. Chang, A. Guercio, P. Maresca
July 2002   SEKE '02: Proceedings of the 14th international conference on Software engineering and knowledge engineering
Publisher: ACM

Full text available: pdf(95.53 KB)   Additional Information: full citation, abstract, references

Multimedia Software Engineering (MSE) is a new frontier for both Software Engineering (SE) and Visual Languages (VL). In fact multimedia software engineering can be considered as the discipline for systematic specification, design, substitution and verification ...

6 A 3D XML-based customized framework for dynamic models

Taewoo Kim, Paul A. Fishwick
February 2002   Web3D '02: Proceedings of the seventh international conference on 3D Web technology
Publisher: ACM

Full text available: pdf(377.94 KB)   Additional Information: full citation, abstract, references, cited by, index terms

There are numerous forms for dynamic models, which specify how an object or scene behaves over time. Discrete state automata, Petri nets, and data flow graphs are only a few samples of model types available, which aid modelers in capturing dynamics. ...

Keywords: 3D, MXL, VRML, X3D, XML, XSLT, aesthetic computing, aesthetic programming, dynamic modeling, model design, personalization, rube

7 Discovering approximate keys in XML data

Gösta Grahne, Jianfei Zhu
November   CIKM '02: Proceedings of the eleventh international conference on
2002   Information and knowledge management
Publisher: ACM

Full text available: pdf(202.01 KB)   Additional Information: full citation, abstract, references, index terms

Keys are very important in many aspects of data management, such as guiding query formulation, query optimization, indexing, etc. We consider the situation where an XML document does not come with key definitions, and we are interested in using data ...

8 Generating remote control interfaces for complex appliances

Jeffrey Nichols, Brad A. Myers, Michael Higgins, Joseph Hughes, Thomas K. Harris, Roni Rosenfeld, Mathilde Pignol
October   UIST '02: Proceedings of the 15th annual ACM symposium on User
2002   interface software and technology
Publisher: ACM

Full text available: pdf(4.58 MB)   Additional Information: full citation, abstract, references, cited by, index terms

The *personal universal controller* (PUC) is an approach for improving the interfaces to complex appliances by introducing an intermediary graphical or speech interface. A PUC engages in two-way communication with everyday appliances, first downloading ...

Keywords: appliances, handheld computers, pebbles, personal digital assistants (PDAs), personal universal controller (PUC), remote control, universal speech interface (USI)

9 Unparsing RDF/XML

Jeremy J. Carroll
May   WWW '02: Proceedings of the 11th international conference on World Wide
2002   Web
Publisher: ACM

Full text available: pdf(296.07 KB)   Additional Information: full citation, abstract, references, index terms

It is difficult to serialize an RDF graph as a humanly readable RDF/XML document. This paper describes the approach taken in Jena 1.2, in which a design pattern of guarded procedures invoked using top down recursive descent is used. Each procedure corresponds ...

Keywords: RDF, XML, generation, grammar, parsing, universal algebra, unparsing

10 Effective Web data extraction with standard XML technologies

Jussi Myllymaki
April   WWW '01: Proceedings of the 10th international conference on World Wide
2001   Web
Publisher: ACM

Full text available: pdf(198.81 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: crawling, data extraction, deep Web, semistructured data, wrappers

11 Using Javadoc and XML to produce API reference documentation

Donald M. Leslie
October   SIGDOC '02: Proceedings of the 20th annual international conference on
2002   Computer documentation
Publisher: ACM

Full text available: pdf(623.29 KB)   Additional Information: full citation, abstract, references, cited by, index terms

The creation of API reference documentation and its integration into larger
documentation sets present a number of challenges. This paper explores a strategy
for using Javadoc, the primary mechanism for generating Java API documentation, in
conjunction ...

Keywords: API documentation, HTML, Javadoc, XML, XSL stylesheets, XSLT,
doclets, document transformation

12 Mapping and displaying structural transformations between XML and PDF

Matthew R. B. Hardy, David F. Brailsford
November   DocEng '02: Proceedings of the 2002 ACM symposium on Document
2002   engineering
Publisher: ACM

Full text available: pdf(439.03 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Documents are often marked up in XML-based tagsets to delineate major structural
components such as headings, paragraphs, figure captions and so on, without much
regard to their eventual displayed appearance. And yet these same abstract
documents, after ...

Keywords: PDF, XML, document structure transformation

13 Lazy XML processing

Markus L. Noga, Steffen Schott, Welf Löwe
November 2002   DocEng '02: Proceedings of the 2002 ACM symposium on Document engineering

Publisher: ACM

Full text available: pdf(197.96 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper formalizes the domain of tree-based XML processing and classifies several implementation approaches. The lazy approach, an original contribution, is presented in depth. Proceeding from experimental measurements, we derive a selection strategy ...

Keywords: XML, document object model, lazy evaluation, parsing

14 Algorithms and programming models for efficient representation of XML for Internet applications

Neel Sundaresan, Reshad Moussa
April 2001   WWW '01: Proceedings of the 10th international conference on World Wide Web

Publisher: ACM

Full text available: pdf(352.97 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: DOM, SAX, WBXML, XML, compression

15 Generating presentation constraints from rhetorical structure

Lloyd Rutledge, Brian Bailey, Jacco van Ossenbruggen, Lynda Hardman, Joost Geurts
May 2000   HYPERTEXT '00: Proceedings of the eleventh ACM on Hypertext and hypermedia

Publisher: ACM

Full text available: pdf(233.19 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: authoring, constraints, meta-structure, presentation generation, rhetorics

16 An XML model for small business e-commerce

Jim Sims, Rahul Tikekar
November   CCSC '00: Proceedings of the fourteenth annual consortium on Small
2000   Colleges Southeastern conference
Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(74.30 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes a model based on the eXtensible Markup Language (XML) for small businesses e-commerce. The ideas behind this paper grew from the authors' and other Southern Oregon University students' experiences working with lesser-funded, technically ...

17 An XML model for small business e-commerce

Jim Sims, Rahul Tikekar
October   Proceedings of the second annual CCSC on Computing in Small Colleges
2000   Northwestern conference
Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(74.30 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes a model based on the eXtensible Markup Language (XML) for small businesses e-commerce. The ideas behind this paper grew from the authors' and other Southern Oregon University students' experiences working with lesser-funded, technically ...

18 Second edition of the "XML and information retrieval" workshop held at SIGIR'2002, Tampere, Finland, Aug 15th, 2002

Ricardo Baeza-Yates, Norbert Fuhr, Yoelle S. Maarek
September   ACM SIGIR Forum,   Volume 36 Issue 2
2002
Publisher: ACM

Full text available: pdf(41.34 KB)   Additional Information: full citation, abstract, cited by

The previous workshop on "XML and Information Retrieval" was held in the context of SIGIR'2000 (Athens, Greece) and showed that there is a serious interest in managing semi-structured data from an IR (i.e., unstructured) perspective rather than from ...

19 Efficient evaluation of XML middle-ware queries

Mary Fernandez, Atsuyuki Morishima, Dan Suciu
June 2001   ACM SIGMOD Record,   Volume 30 Issue 2
Publisher: ACM

Full text available: pdf(414.15 KB)   Additional Information: full citation, abstract, references, cited by, index terms

We address the problem of efficiently constructing materialized XML views of relational databases. In our setting, the XML view is specified by a query in the declarative query language of a middle-ware system, called SilkRoute. The middle-ware system ...

20 Effective structural inference for large XML documents

Jason Sankey, Raymond K. Wong
August   Proceedings of the 19th international conference on Computational
2002   linguistics - Volume 1,   Volume 1
Publisher: Association for Computational Linguistics

Full text available: pdf(160.03 KB)   Additional Information: full citation, abstract, references

This paper investigates methods to automatically infer structural information from large XML documents. Using XML as a reference format, we approach the schema generation problem by application of inductive inference theory. In doing so, we review and ...

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